

## PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Jens Bachmann</td> <td>09/27/2012</td> </tr> <tr> <td>Genadi Velev</td> <td>09/27/2012</td> </tr> <tr> <td>Shinkichi Ikeda</td> <td>09/26/2012</td> </tr> </tbody> </table>		Name	Execution Date	Jens Bachmann	09/27/2012	Genadi Velev	09/27/2012	Shinkichi Ikeda	09/26/2012
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Jens Bachmann	09/27/2012								
Genadi Velev	09/27/2012								
Shinkichi Ikeda	09/26/2012								
RECEIVING PARTY DATA									
Name:	Panasonic Corporation								
Street Address:	1006, Oaza Kadoma, Kadoma-shi								
City:	Osaka								
State/Country:	JAPAN								
PROPERTY NUMBERS Total: 1									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13634615</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13634615				
Property Type	Number								
Application Number:	13634615								
CORRESPONDENCE DATA									
<p>Fax Number:  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Email: idyakiv@pearne.com          Correspondent Name: Aaron A. Fishman          Address Line 1: 1801 E.9th Street          Address Line 2: Suite 1200          Address Line 4: Cleveland, OHIO 44114</p>									
ATTORNEY DOCKET NUMBER:	PGRU-50143								
NAME OF SUBMITTER:	Aaron A. Fishman								
<p>Total Attachments: 3          source=PGRU-50143-Assignment-executed#page1.tif          source=PGRU-50143-Assignment-executed#page2.tif          source=PGRU-50143-Assignment-executed#page3.tif</p>									

CH \$40.00 13634615

## ASSIGNMENT

WHEREAS, new and useful improvements have been made by the undersigned in  
GROUP-BASED PAGING FOR MACHINE-TYPE-COMMUNICATION (MTC) DEVICES

for which an application for Letters Patent of the United States was filed on September 13, 2012 which application is identified by Serial No. 13/634,615 (Pearne & Gordon LLP Docket No. PGRU-50143).

WHEREAS, Panasonic, a corporation of Japan, having a place of business at 1006, Oaza Kadoma, Kadoma-shi, Osaka, Japan hereinafter referred to as "assignee", is desirous of acquiring all right, title, and interest throughout the world in, to, and under said improvements and inventions and patent rights therefor.

NOW, THEREFORE, be it known that, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, all right, title, and interest, in the United States and throughout the world, in, to and under said improvements and inventions and all patents, patent applications, patent rights, and inventors' certificates thereof, therefor, and therein, including without limitation said application for patent in the United States, all divisions and continuations thereof, all patents which may be granted thereon, all reissues and extensions thereof, all right to sue for past infringement thereunder, all patents which may be granted for said improvements and inventions by states or nations other than the United States, or by other authority, entity, or organization, and all applications therefor, have been and are hereby sold, assigned, transferred, and delivered unto assignee, its successors and assigns; and it is covenanted and agreed by the undersigned, and for executors, administrators, and legal representatives of the undersigned, that at assignee's request any and all applications, affidavits, assignments, and other instruments will be made, executed, and delivered as may be necessary, or desirable to secure for or vest in assignee, its successors or assigns, any improvement, inventions, right, title, interest, application, patent, patent right or other right or property covered by this assignment, and the United States Commissioner of Patents and Trademarks is hereby requested and authorized to issue any and all United States patents granted on any of said applications to assignee as owner of the entire right, title, and interest in, to, and under the same, and appropriately empowered officials of foreign countries are hereby authorized to issue any letters patent granted on any of said applications to assignee as owner of the entire right, title and interest in, to, and under the same.

The undersigned hereby grant the firm of Pearne & Gordon LLP the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, this assignment has been executed below by the undersigned:

(1) Inventor Name: Jens Bachmann

Signature:



Today's Date:

Sep. 27, 2012

Date I Signed Declaration:

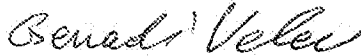
Sep 27, 2012

Witness:

Witness:

(2) Inventor Name: Genadi Velez

Signature:



Today's Date:

Sep. 27, 2012

Date I Signed Declaration:


Sep. 27, 2012

Witness:

Witness:

(3) Inventor Name: Shinkichi Ikeda

Signature:



Today's Date:

Sep. 26, 2012

Date I Signed Declaration:

Sep. 26, 2012

Witness:

Witness:

(4) Inventor Name: Takahisa Aoyama

Signature: *Takahisa Aoyama*

Today's Date: *Sep. 26, 2012*

Date I Signed Declaration: *Sep. 26, 2012*

Witness:

Witness